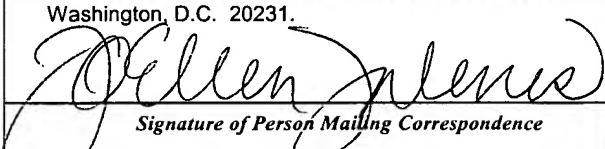
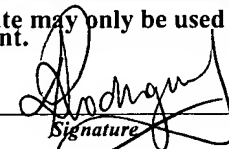


TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))			Docket No. MEM-0005	
In Re Application: Ming Wu				
Serial No. 10/609,004	Filing Date 06/27/2003	Examiner	Group Art Unit 1742	
<p style="text-align: center;">METHOD FOR MANUFACTURING SUPERELASTIC BETA TITANIUM</p> <p style="text-align: center;">ARTICLES AND THE ARTICLES DERIVED THEREFROM</p>				
<p style="text-align: center;">Payment of Fee</p> <p style="text-align: center;">(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))</p> <p><input type="checkbox"/> A check in the amount of _____ is attached.</p> <p><input checked="" type="checkbox"/> The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 06-1130 as described below. A duplicate copy of this sheet is enclosed.</p> <p style="margin-left: 40px;"> <input type="checkbox"/> Charge the amount of _____ <input type="checkbox"/> Credit any overpayment. <input checked="" type="checkbox"/> Charge any additional fee required. </p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;">Certificate of Transmission by Facsimile*</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (F </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> _____ (Date) </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> _____ Signature </div> <div style="border: 1px solid black; padding: 5px;"> _____ Typed or Printed Name of Person Signing Certificate </div> </div> <div style="width: 45%;"> <p style="text-align: center;">Certificate of Mailing by First Class Mail</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> I certify that this document and fee is being deposited November 17, 2003 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231. </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">  Signature of Person Mailing Correspondence </div> <div style="border: 1px solid black; padding: 5px;"> Jo-Ellen J. Denis Typed or Printed Name of Person Mailing Certificate </div> </div> </div> <p style="margin-top: 10px;">*This certificate may only be used if paying by deposit account.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;">  Signature </div> <div style="width: 45%;"> <p>Dated: November 17, 2003</p> </div> </div>				
<p>David E. Rodrigues Registration No. 50,604 Cantor Colburn LLP 55 Griffin Road South Bloomfield, CT 06002 Customer No. 23413 (860) 286-2929</p> <p>CC:</p>				

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
MEM-0005

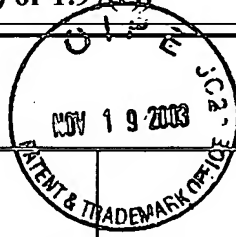
In Re Application Of: **Ming Wu**

Serial No.
10/609,004

Filing Date
06/27/2003

Examiner

Group Art Unit
1742



Title:

**METHOD FOR MANUFACTURING SUPERELASTIC BETA TITANIUM
ARTICLES AND THE ARTICLES DERIVED THEREFROM**

Address to:

**Assistant Commissioner for Patents
Washington, D.C. 20231**

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:
- ☐ the statement specified in 37 CFR 1.97(e);
- OR**
- ☐ the fee set forth in 37 CFR 1.17(p).

PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <u>LIST OF ITEMS</u> (Use several sheets if necessary)			Attorney's Docket Number MEM-0005		Serial Number 10/609,004	
			Name of Applicant Ming Wu			
			Filing Date 06/27/2003		Group 1742	
FOREIGN PATENT DOCUMENTS						
Document Number	Date	COUNTRY	Class	Subclass	TRANSLATION YES NO	
	0 416 929 B1	30.11.94	European			No
2	0 601 804 A1	15.06.94	European			No
3	EP 0 675 971 B1	11.10.95	European			No
4	EP 0 683 242 B1	22.11.95	European			No
5	EP 0 716 155 B1	12.06.96	European			No
6	EP 0 852 164 B1	08.07.98	European			No
7	EP 1 046 722 A1	25.10.00	European			No
8	EP 1 083 243 A2	14.03.01	European			No
9	EP 1 002 882 B1	11.12.02	European			No
10	WO 98/43550	08.10.98	International			No
11	WO 99/45161	10.09.99	International			No
12	WO 99/58184	18.11.99	International			No
13	WO 00/68448	16.11.00	International			No
14	WO 02/094334 A1	28.11.02	International			No
OTHER INFORMATION (including author, title, date, pertinent)						
15	Proceedings of the MRS International Meeting on Advanced Materials, Volume 9, May 31-June 3, 1998, Sunshine City, Ikebukuro, Tokyo, Japan, "Linear and Non-Linear Superelasticity in NiTi", G.R. Zadno et al.					
16	"Shape Memory Effect in Ti-Mo-Al Alloys", Hisaoki Sasano et al., pgs 1667-1674, 1984					
17	"The Martensite Transformation Temperature in Titanium Binary Alloys", Pol Duwez, pgs 934-940, March 23-27, 1953					
18	Acta metal. Vol. 30, 1982, "Formation and Reversion of Stress Induced Martensite in Ti-10V-2Fe-3Al", T.W. Duerig et al., 13 May 1982, pgs 2161-2172					
19	American Journal of Orthodontics, St. Louis, Vol. 77, No. 2, February, 1980 "Beta titanium: A new orthodontic alloy", Charles J. Burstone et al., pgs 121-132					
EXAMINER				DATE CONSIDERED		
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.						

PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <u>LIST OF ITEMS</u> (Use several sheets if necessary)			Attorney's Docket Number MEM-0005 Name of Applicant Ming Wu Filing Date 06/27/2003		Serial Number 10/609,004 Group 742	
U.S. PATENT DOCUMENTS						
	Document Number	Date	NAME	Class	Subclass	Filing Date If Appropriate
20	4,037,324	07/26/77	Andreasen	32	14 A	05/21/73
21	4,040,129	08/09/77	Steinemann et al.	3	1.9	02/24/75
22	4,197,643	04/15/80	Burstone et al.	433	20	03/14/78
23	4,503,569	03/12/85	Dotter	3	1.4	03/03/83
24	4,543,132	09/24/85	Berczik et al.	148	11.5 F	10/31/83
25	4,665,906	05/19/87	Jervis	128	92 YN	05/21/86
26	4,765,335	08/23/88	Schmidt et al.	128	326	05/06/87
27	4,772,112	09/20/88	Zider et al.	351	41	06/19/86
28	4,781,450	11/01/88	Danloup et al.	351	114	02/10/87
29	4,799,975	01/24/89	Ouchi et al.	148	12.7 B	09/22/87
30	4,807,798	02/28/89	Eylon et al.	228	190	11/26/86
31	4,809,903	03/07/89	Eylon et al.	228	194	11/26/86
32	4,820,360	04/11/89	Eylon et al.	148	133	12/04/87
33	4,842,653	06/27/89	Wirth et al.	148	12.7 B	06/30/87
34	4,857,269	08/15/89	Wang et al.	420	417	09/09/88
35	4,869,585	09/26/89	Romanet	351	153	04/10/87
36	4,896,955	01/30/90	Zider et al.	351	41	12/05/88
37	4,943,412	07/24/90	Bania et al.	420	420	05/01/89
38	4,951,735	08/28/90	Berczik	164	138	01/02/86
39	5,041,262	08/20/91	Gigliotti, Jr.	420	419	10/06/89
OTHER INFORMATION (including author, date, title, pertinent)						
40	"Optimal welding of beta titanium orthodontic wires", Kenneth R. Nelson, DDS MS, et al. September, 1987, pgs 213-219					
41	Proceedings of the Second International Conference on Shape Memory and Superelastic Technologies, Asilomar Conference Center, Pacific Grove, CA, USA 1997 "A Study of Pseudoelastic Beta Titanium for Orthodontic Application", C. Lei et al., pgs 503-508					
42	American Journal of Orthodontics, Vol. 80, No. 1, July, 1981, "Variable-modulus orthodontics" Charles J. Burstone, DDS, MS, pgs 1-16					
EXAMINER				DATE CONSIDERED		
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PTO-1449		Attorney's Docket Number MEM-0005		Serial Number 10/609,004	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <u>LIST OF ITEMS</u>		Name of Applicant Ming Wu			
		Filing Date 06/27/2003		Group 1742	
(Use several sheets if necessary)		U.S. PATENT DOCUMENTS			
	Document Number	Date	NAME	Class	Subclass
					Filing Date If Appropriate
43	5,067,957	11/26/91	Jervis	606	108
44	5,147,370	09/15/92	McNamara et al.	606	108
45	5,160,554	11/03/92	Bania et al.	148	407
46	5,169,597	12/08/92	Davidson et al.	428	613
47	5,173,134	12/22/92	Chakrabarti et al.	148	671
48	5,176,762	01/05/93	Berczik	148	407
49	5,200,133	04/06/93	Dieul et al.	264	257
50	5,205,984	04/27/93	Rowe	420	420
51	5,219,521	06/15/93	Adams et al.	420	418
52	5,229,562	07/20/93	Burnett et al.	219	10.41
53	5,232,361	08/03/93	Sachdeva et al.	433	8
54	5,258,022	11/02/93	Davidson	623	2
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55	Titanium '95: Science and Technology, Otto Fuchs Metallwerke, Meinerzhagen, Germany, "Beta Titanium Alloys", G. Terlinde et al., pgs 2177-2194, 1995				
56	"Beta Titanium Alloys and Their Role in the Titanium Industry", Henderson, NY, Keynote Lecture, Paul J. Bania, TMS, Warrendale, pgs 3-14, 1993				
57	Dept. of Metallurgy and Materials Science, Imperial College of Science and Technology, London, U.K., "Martensite Formation and Decomposition in Alloys of Titanium containing B-Stabilizing Elements", H.M. Flower et al., Plenum Press, pgs 1703-1715, 1982				
58	Materials Science and Engineering, A132 (1991), "Atomic ordering in Ti-V-Al shape memory alloys", J. S. Lee Pak, et al., pgs 237-244, June 4, 1990				
59	American Society for Metals and The Metallurgical Society of AIME, Vol. 11A, December 1980-1987, "Phase Transformations and Tensile Properties of Ti-10V-2Fe-3Al, T.W. Duerig et al., 12 pgs, August 2, 1979				
60	Shape Memory Materials, "Mechanism of shape memory effect and superelasticity", K. Otsuka et al., Cambridge University Press, pgs 27-48, 1998				
61	The Physical Metallurgy of Titanium Alloys, E.W. Collings, Battelle Memorial Institute, Columbus, OH, AMERICAN SOCIETY FOR MATERIALS (ASM), pgs 100-110, 1984				
62	Proceedings International Conference on Shape Memory and Superelastic Technologies (SMST-2003), Pacific Grove, California (2003), "Pseudoelastic Beta Ti-Mo-V-Nb-Al Alloys", M.H. Wu, et al., 8 pgs, 2003				
63	Proceedings 10 th World Conference on Titanium (Ti-2003), Hamburg, Germany (2003), "Phase Transformations and Mechanical Response in a Ti/Mo-Based Pseudo-Elastic Alloy", T. Zhou et al., pgs 1-8				
64	"Mechanical Properties and Microstructures of Pseudoelastic Beta Ti-Mo-V-Nb- Alloys", M.H. Wu et al., 8 pgs, 2003				
EXAMINER			DATE CONSIDERED		
<p>* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.</p>					

PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <u>LIST OF ITEMS</u> (Use several sheets if necessary)		Attorney's Docket Number MEM-0005		Serial Number 10/609,004	
		Name of Applicant Ming Wu			
		Filing Date 06/27/2003		Group 1742	

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U.S. PATENT DOCUMENTS						
Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate	
66	5,261,940	11/16/93	Berczik	75	236	05/08/89
66	5,264,055	11/23/93	Champin et al.	148	671	05/14/92
67	5,294,267	03/15/94	Bania et al.	148	421	12/04/92
68	5,304,263	04/19/94	Champin et al.	148	671	06/30/93
69	5,312,247	05/17/94	Sachdeva et al.	433	7	05/21/92
70	5,342,458	08/30/94	Adams et al.	148	670	03/18/93
71	5,397,404	03/14/95	Hansen et al.	148	669	12/23/92
72	5,399,212	03/21/95	Chakrabarti et al.	148	421	04/23/92
73	5,415,704	05/16/95	Davidson	148	316	09/13/93
74	5,423,881	06/13/95	Breyen et al.	607	122	03/14/94
75	5,466,242	11/14/95	Mori	606	198	02/02/94
76	5,486,242	01/23/96	Naka et al.	148	422	05/15/95
77	5,573,401	11/12/96	Davidson et al.	433	201.1	06/16/94
78	5,573,604	11/12/96	Gerdes	148	237	06/28/95
79	5,580,403	12/03/96	Mazur et al.	148	407	02/09/95
80	5,630,890	05/20/97	Smashey et al.	148	669	01/30/95
81	5,653,689	08/05/97	Buelna et al.	604	96	09/30/95
82	5,658,403	08/19/97	Kimura	148	671	03/31/95
83	5,679,183	10/21/97	Takagi et al.	148	671	11/29/95

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(Use several sheets if necessary)		Name of Applicant Ming Wu			
		Filing Date 06/27/2003		Group 1742	

U.S. PATENT DOCUMENTS						
No.	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
84	5,698,050	12/16/97	El-Soudani	148	671	11/15/94
85	5,709,021	01/20/98	DiCello et al.	29	423	05/11/94
86	5,718,779	02/17/98	Fukai et al.	148	670	11/13/96
87	5,753,053	05/19/98	Smashey et al.	148	421	03/25/97
88	5,776,617	07/07/98	Brady et al.	428	632	10/21/96
89	5,792,289	08/11/98	Morton et al.	148	421	10/04/94
90	5,795,413	08/18/98	Gorman	148	671	12/24/96
91	5,807,189	09/15/98	Martin et al.	473	342	12/07/95
92	5,807,190	09/15/98	Krumme et al.	473	342	12/05/96
93	5,830,179	11/03/98	Mikus et al.	604	49	04/09/96
94	5,888,201	03/30/99	Stinson et al.	623	1	06/13/97
95	5,947,723	09/07/99	Mottate et al.	433	8	04/28/93
96	5,954,724	09/21/99	Davidson	606	76	03/27/97
97	5,980,655	11/09/99	Kosaka	148	421	04/09/98
98	6,053,992	04/25/00	Wu et al.	148	402	09/30/97
99	6,053,993	04/25/00	Reichman et al.	148	421	04/17/98
100	6,095,809	08/01/00	Kelly et al.	433	20	09/09/98
101	6,110,302	08/29/00	Gorman	148	407	03/23/98
102	6,116,733	09/12/00	Krumme et al.	351	114	06/05/97
103	6,127,044	10/03/00	Yamamoto et al.	428	603	09/13/95

EXAMINER	DATE CONSIDERED
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PTO-1449

Attorney's Docket Number
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10/609,004INFORMATION DISCLOSURE STATEMENT BY APPLICANT
LIST OF ITEMSName of Applicant
Ming WuFiling Date
06/27/2003Group
1742

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	6,132,209	10/17/00	Devanathan	433	20	04/13/99
105	6,139,141	10/31/00	Zider	351	57	05/20/99
106	6,149,051	11/21/00	Vollmer et al.	228	262.72	07/21/98
107	6,164,775	12/26/00	Zider et al.	351	86	04/09/99
108	US 6,200,133 B1	03/13/01	Kittelsen	433	6	03/08/99
109	US 6,200,685 B1	03/13/01	Davidson	428	472.1	02/02/99
110	US 6,238,491 B1	05/29/01	Davidson et al.	148	237	05/05/99
111	US 6,250,755 B1	06/26/01	Conner et al.	351	110	10/01/99
112	US 6,258,182 B1	07/10/01	Schetky et al.	148	402	03/05/99
113	US 6,284,070 B1	09/04/01	Gorman et al.	148	668	08/27/99
114	US 6,336,250 B1	01/08/02	Takeda et al.	16	228	11/10/99
115	US 6,409,792 B1	06/25/02	Schutz et al.	75	10.18	11/06/00
116	US 6,419,358 B1	07/16/02	Schetky et al.	351	114	11/24/99
117	US 6,454,882 B1	09/24/02	Martin	148	421	01/16/01
118	US 6,458,145 B1	10/01/02	Ravenscroft et al.	606	200	11/28/00
119	US 6,491,592 B2	12/10/02	Cackett et al.	473	342	07/16/01
120	US 6,527,938 B2	03/04/03	Bales et al.	205	229	06/21/01
121	US 6,543,273 B1	04/08/03	Wells et al.	73	12.01	08/11/00
122	US 6,582,226 B2	06/24/03	Jordan et al.	433	10	05/03/01
123	US 6,589,371 B1	07/08/03	Kaibyshev et al.	148	504	04/23/99

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NOV 19 2003 (Use several sheets if necessary)

U.S. PATENT DOCUMENTS

	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
124	US6,605,110 B2	08/12/03	Harrison	623	1.15	06/29/01
125	US6,606,513 B2	08/12/03	Lardo et al.	600	411	02/01/01
126	US2001/0054500 A1	12/27/01	Raybould et al.	165	166	06/05/01
127	US2002/0108682 A1	08/15/02	LI et al.	148	407	10/26/99
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129	US2002/0179197 A1	12/05/02	Lin et al.	148	421	06/26/02
130	US2002/0198601 A1	12/26/02	Bales et al.	623	23.55	06/21/01
131	US2003/0005987 A1	01/09/03	Ozbaysal	148	670	07/06/01
132	US2003/0009095 A1	01/09/03	Skarda	600	374	05/21/02
133	US2003/0032851 A1	02/13/03	Apple et al.	600	3	07/12/02
134	US2003/0108659 A1	06/12/03	Bales et al.	427	2.24	01/14/03
135	US2003/0120330 A1	06/26/03	Ouriel et al.	623	1.12	12/20/01
136	US2003/0124480 A1	07/03/03	Peacock, III	433	23	09/23/02
137	US2003/0168138 A1	09/11/03	Marquardt	148	671	06/07/02

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